



# SLIDING BEARINGS DIVISION

HYDRAULIC, ENERGY AND METAL INDUSTRY

## SB-01

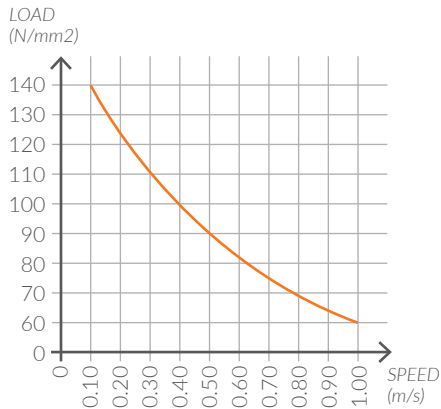
### Aisi 304 + sintered bronze + PTFE compound

#### Supporting shell: Aisi 304

<b>C</b>	0.07%	<b>Si</b>	1.00%
<b>Mn</b>	2.00%	<b>Cr</b>	17.5-19.5%
<b>P</b>	0.045%	<b>N</b>	0.11%
<b>S</b>	0.030%	<b>Ni</b>	8.0-10.5%

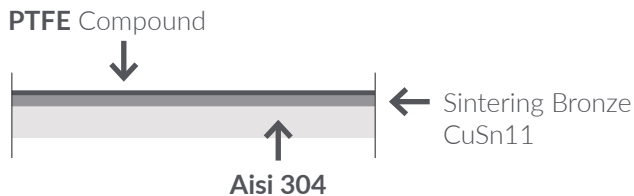
The given values are nominal values from literature.

#### GRAPHIC LOAD / SPEED



Remarks: for more detailed technical information on load/speed tests, please contact our offices.

#### BEARING SECTION



#### SLIDING LAYERS

PTFE (polytetrafluoroethylene) compound, colour Gray, thickness 20-40 µm, by high load capacity and self-lubricating under dry operation, NO LEAD in accordance to the European Parliament's ref: 2000/53/EC.

#### SINTERING

Intermediate layer CuSn11 Sintered 200 ÷ 350 µm (Average Peak)

#### MECHANICAL PROPERTIES

<b>WORKING TEMPERATURE</b>	min -190°C - max +280 °C
<b>COEFFICIENT OF FRICTION</b>	0.03-0.20
<b>MAX. SPEED</b>	dry: 2.50 m/s, oil: <10 m/s
<b>MAX. STATIC LOAD</b>	250 N/mm <sup>2</sup>
<b>MAX. DYNAMIC LOAD (max. speed 0.05 m/s)</b>	140 N/mm <sup>2</sup>
<b>MAX. DYNAMIC LOAD (max. speed 0.50 m/s)</b>	60 N/mm <sup>2</sup>
<b>PxV 3.6 max (N/mm<sup>2</sup> x m/s)</b>	admissible for short periods
<b>PxV 1.8 max (N/mm<sup>2</sup> x m/s)</b>	for continuous loads in dry use
<b>PxV 0.9 max (N/mm<sup>2</sup> x m/s)</b>	for alternating loads in dry use

#### SHAFT

Shaft surface finishing, for optimal performance, shall be between 0.4 and 0.8 µm Ra, depending on different application. Hardness minimum 180 HB5. The best materials for the production of the shaft, are tempered and hardened.

#### CHEMICAL RESISTANCE

<b>GASOLENE</b>	Excellent	<b>SODIUM HYDROXIDE</b>	Sufficient
<b>KEROSENE</b>	Excellent	<b>AMMONIA</b>	Sufficient
<b>DIESEL FUEL</b>	Excellent	<b>HYDROCHLORIC ACID 5%</b>	No resistance
<b>MINERAL OIL</b>	Excellent	<b>SULFURIC ACID 5%</b>	No resistance
<b>METHANE</b>	Excellent	<b>NITRIC ACID 5%</b>	No resistance
<b>SOLVENTS</b>	Good	<b>SEA WATER</b>	No resistance
<b>WATER</b>	Sufficient		

For the housing tolerances table please refer to our website or contact us. We can provide you detailed reports on the compatibility tests, performed by the Laboratory AQM S.r.l. in Brescia.

**SLIBITALY**  
**F.lli Paris S.r.l. a socio unico**  
 via Marconi 142/144, 24060 Castelli Calepio (BG) ITALY  
 phone +39 035 442 5511 | fax +39 035 442 5478  
 info@slibitaly.com

[slibitaly.com](http://slibitaly.com)

**Note:** The information in this data-sheet is to be considered reliable, but conditions and methods of use, which are beyond our control, may modify the results. The information and data contained in this data-sheet are the result of a long and detailed research, however F.lli Paris S.r.l. cannot be considered responsible for any incorrect or incomplete data. Owing to the constant development of the products, we reserve the right to make changes to them without prior notice.

Data sheet n° SBST033 - Rev. 27/03/2019